

Clean Cities Workshop Mexico City, Mexico November 6/7, 2003





#### **Economics**

### **Air Pollution**

## **Energy Security**



### **Selected High Growth Countries**

Venezuela

Russia

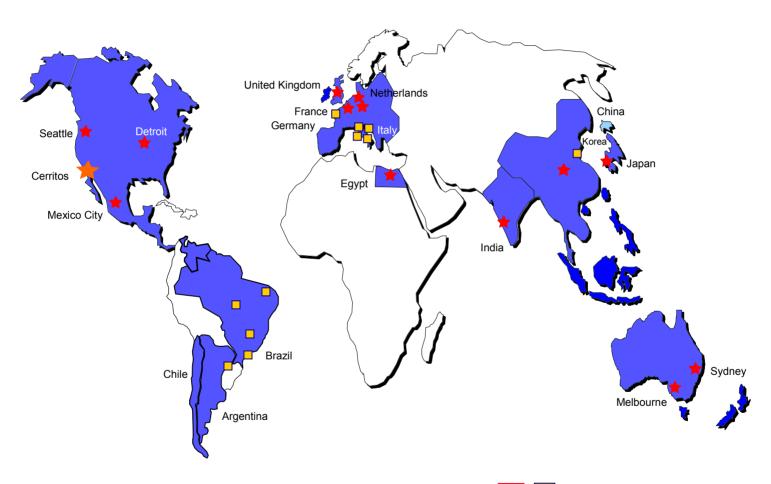


Venezuela

Russia

Economics	Air Pollution	Energy Security
United States	United States	United States
India	India	India
Mexico	Mexico	Mexico
Brazil	Brazil	Brazil
Argentina	Argentina	Argentina
Australia	Australia	Australia
Egypt	Egypt	Egypt
Canada	Canada	Canada
China	China	China
Holland	Holland	Holland
Indonesia	Indonesia	Indonesia
Malaysia	Malaysia	Malaysia
Pakistan	Pakistan	Pakistan
Turkey	Turkey	Turkey
United Kingdom	United Kingdom	United Kingdom
Poland	Poland	Poland
France	France	
Germany	Germany	
Hong Kong	Hong Kong	
Italy	Italy	
Japan	Japan	
S. Korea	S. Korea	
Taiwan	Taiwan	
Thailand	Thailand	
Chile	Chile	







25 strategically located facilities 520 employees 600+ distributor outlets



## Global Auto LP Gas Growth

- ✓ Auto LP Gas is a proven and growing alternative transportation fuel with many success stories.
- ✓ Auto LP Gas is the leading alternative transportation fuel with approx. nine million vehicles operating worldwide
- ✓ Of these, over 700,000 vehicles are in Mexico
- ✓ A large number of these vehicles are used in fleets:
  - ✓ Heavy duty trucks, Buses, Taxis, Police Cars, and Delivery Vehicles.



# Why Fleets Convert to Auto LP Gas?

- ✓ Fuel cost savings
- ✓ Environmental benefits/government incentive
- ✓ Vehicle range is comparable to gasoline
- ✓ Lower cost and simple maintenance
- ✓ Reliable technology, horsepower & torque capacity
- ✓ Quick and easy refuelling







## What works...

Where Auto LP gas is growing successfully, the following factors are typically present:

- ✓ Quality OEM and aftermarket LP Gas vehicle and service infrastructure is developed and supported by industry
- ✓ Fuel cost savings are realized on a consistent basis by the end user
- ✓ Government incentives are in place that support the use of LP Gas and regulations ensure quality conversions and products are sold
- ✓ Technology and fuel providers work together with government to ensure stakeholder needs are met and the customer is delighted...



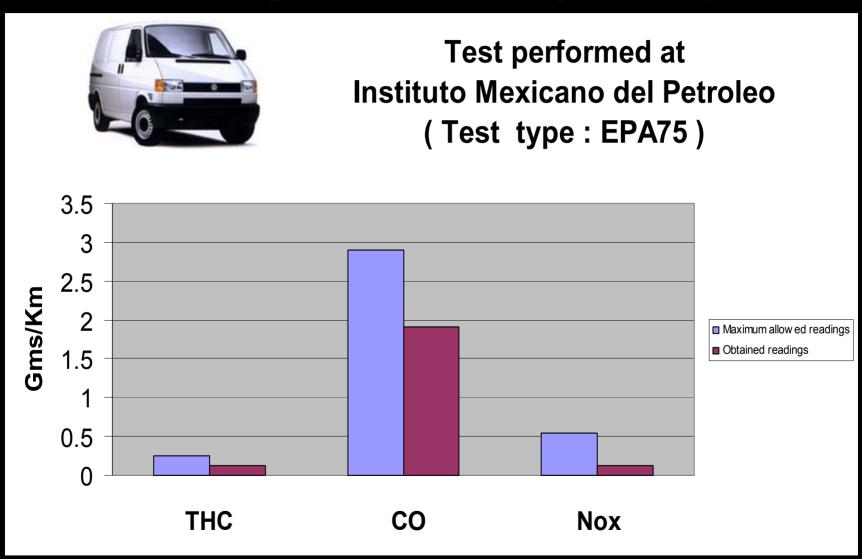
## What Doesn't Work...

Sustainable Auto LP Gas vehicle growth is typically not possible if:

- Poor quality and inferior aftermarket vehicle conversions
- Lack of OEM vehicle development and marketing programs
- Lack of refuelling & maintenance infrastructure
- Lack of Government regulatory and incentive programs
- > to support the paradigm shift to a cleaner fuels
- Consistent LP Gas company support is not present



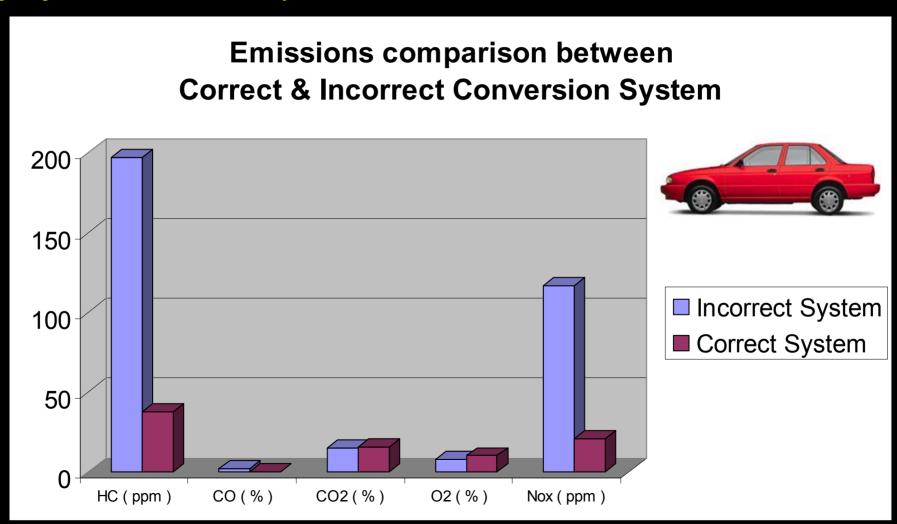
## Auto LP Gas is a proven clean transportation fuel....



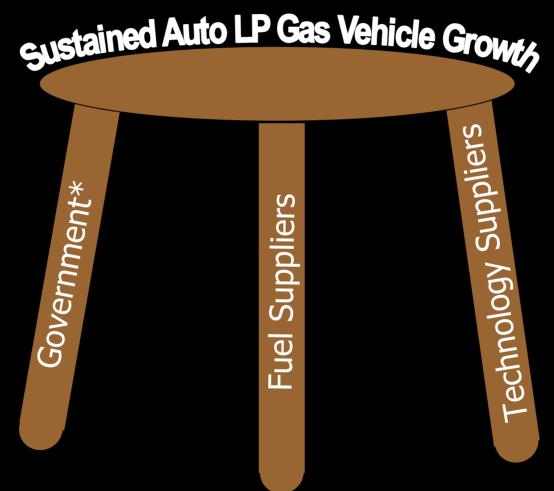




# The technology selection and installation must be performed correctly...









- ✓ Continued legislation and incentives that support the use of Clean Auto LP Gas as an alternate fuel
- ✓ Implement and enforce Safety, Technology & Emission standards that ensure benefits are realized
- ✓ Preventive maintenance mandates & inspections
- ✓ Support new technology development programs

BENEFIT: Lower emissions inventory, increased energy security & jobs



Suppliers

Fuel



- ✓ Support only authorized/certified aftermarket conversion centers and technology
- ✓ Support OEM authorized vehicle development programs
- ✓ Install conveniently located dispensers metering quality fuel
- ✓ Invest in new technology development to keep pace with gasoline/diesel

BENEFIT: Sustainable growth market, increased volume and profits



- Development of emission certified conversion systems for the OEM and Aftermarket
- Development and training of professional authorized Conversion & Service Centers for the OEM & Aftermarket
- Ensure that closed loop fuel systems are installed and validated
- New technology development in partnership with industry

Suppliers Technology

BENEFIT: Sustainable growth market, increased volume and profits



Working together, all three stakeholder groups can develop a successful Auto LP Gas program that ensures:

- Delighted customers > seeing returns on their investment in auto LP Gas
- ✓ Supportive government > realizing consistent emission reductions and energy security benefits
- ✓ OEM Interest > seeing a positive image and successful retrofit market and a product worthy of their investment
- ✓ Sustainable Market > seen by fuel and technology providers
- ✓ Industry reinvestment towards technology and market enhancement

**BENEFIT:** Everyone wins

**Proper Execution** 







#### **Government Objective:**

- Reduce emissions by 40%
- Implement and manage a program through the PTP\*
- Optimize service and safety for travelers using the PTP system



#### Historic AutoGas challenges:

- Emission problem
- Poor Conversion Quality
- Inconsistent Stakeholder support

<u>Partnership</u> ensues to develop the model for successful AutoGas in the state Taxi Fleet









## How is this accomplished...

- Governmental Agencies
  - Transportation Administration
  - Department of Ecology/ Environment Administration
- AutoGas Suppliers
  - Grupo Zaragosa, Grupo Soni, Grupo Niento
- Technology Suppliers
  - Authorized Conversion shops IMPCO
- Transportation Partners
  - Taxi's/Buses

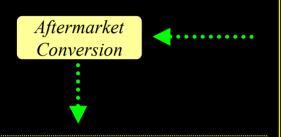








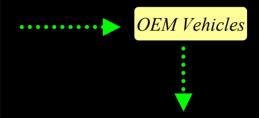




Incentives: Details available Oct/ Dec 2003 90days

#### **Program:**

- Installation guidelines
- Safety requirements
- Emissions control
- Labeling
- Performance requirements



Incentives: Details available Oct/ Dec 2003 90days

## **PTP**

#### **Purchases from either:**

- Authorized conversion center
- Authorized OEM center

#### **Enforcement**

- PTP gets checked yearly by governmental transportation Department
- Yearly emissions testing required by environmental branch of government
- Conversion entities communicate with transportation Department
- Governmental supervisors (patrol) spot check documentation, etc.









#### **Short-term**

- Monetary savings
- \* Fuel, Tax exemption, Yearly registration
- Establish credit for vehicle purchase

#### Long-term

- Residence purchase

### Government

- Reduction of emissions
- Manage and enforce clean air program through PTP
- Gaining residence loyalty
  - Increase use of transportation

# Fuel Supplier

#### uto LP Gas Supplie

- Increase business
- Sustainable Market

# Technology

#### Technology Suppliers

- Increase business
- Sustainable Market

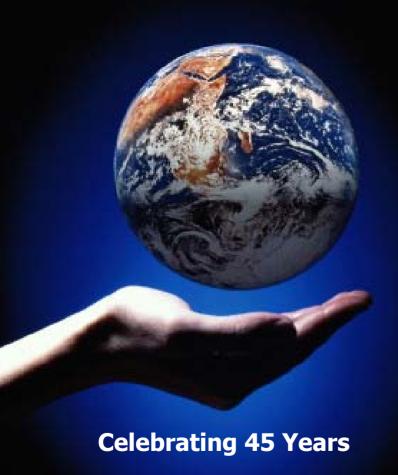


## To remember...

Auto LP Gas is a proven alternative to gasoline and diesel fuels and it is a good fuel for Mexico

- Benefits
  - Cleaner air
  - Economic incentives
  - Energy Security
- Priority on execution
  - Templates for success exist
    Safety, Technology, Emissions
  - Government/industry partnerships
- State of Mexico is the beginning
  - •This model can be replicated in other states and cities





# THANK YOU!



Nasdaq: IMCO www.impcotechnologies.com